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Perkins, Brandon

From: Lynch, Kira
Sent: Wednesday, January 30, 2013 7:36 AM
To: Perkins, Brandon; Bailey, Marcia
Subject: Fw: CD in the mail...

Kira Lynch
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----- Forwarded by Kira Lynch/R10/USEPA/US on 01/30/2013 07:35 AM -----

From: "Fish, James T (DEC)" <james.fish@alaska.gov>
To: JohnT Wilson/ADA/USEPA/US@EPA
Cc: Kira Lynch/R10/USEPA/US@EPA, "Cardona, Tamara (DEC)" <tamara.cardona@alaska.gov>
Date: 01/29/2013 04:55 PM
Subject: CD in the mail...

Hello John,

Just a quick email to let you know your CD is on its way.

It contains some materials you already have (such as the Barr Engineering bench-scale study, and Lisa Gieg's memo). But it also contains supplemental information you may find useful in understanding the site or sulfolane degradation. I included some literature references concerning sulfolane degradation, but it is by no means a complete list.

None of the parties involved have yet identified the predominant mechanism by which sulfolane degrades at this site – I don't think the abiotic reactions are well understood, nor is the microbiology fully elucidated. There is a proposal to install an air-sparge curtain to stop off-site sulfolane migration, but we don't know if doing so will create intermediate compounds that may be more long-lived or toxic. The larger off-site plume is largely anaerobic, and it is unclear if sulfolane actually degrades under the prevailing anaerobic aquifer conditions.

With that in mind, we welcome comments on any of the documents on the CD, or any recommendations you may have, but we are specifically looking for review and comment on:

1) Bench-scale testing of sulfolane degradation conducted by Barr Engineering
2) On-site pilot air-sparge studies conducted by Barr Engineering
3) A summary of potential aerobic degradation pathways (abiotic and biological) prepared by Dr. Lisa Gieg (Uni. of Calgary)
4) The Interim Remedial Action Plan (IRAP) (focusing on degradation)

A fifth document (reporting results from CSIA of groundwater and PLFA-SIP experiments conducted on-site) for review and comment will be available 15 February. Our next "degradation sub-group" teleconference is on 15 February, and I'll send you that meeting invite as that date gets closer.

Please feel free to contact if you have any questions about the documents or the site in general. And thank you for your help.

Jim

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